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P3n 2/14/05

LISTING OF THE CLAIMS

Applicant requests amendment to the claims as specified in the following listing of claims. If accepted, this listing of claims will replace all prior versions, and listings, of claims in the present application. Additions are identified by underlining. Deletions are indicated by ~~strikethrough~~ or [brackets].

1. (Currently Amended) A method for estimating end-to-end quality of service parameters for an Internet Protocol ("IP") communications network, wherein the end-to-end quality of service parameters are selected from end-to-end packet loss, end-to-end packet delay and end-to-end packet delay jitter, and wherein the IP communications network includes routers connected by links and gateways to a Public Switched Telephone Network ("PSTN"), the method using estimates of offered traffic for each service from each source carried to each gateway of the IP communications network, comprising the steps of:
 - estimating, from the offered traffic to each gateway, blocked traffic and carried traffic at each gateway;
 - estimating a load carried for each network link using a network routing algorithm and based on the carried traffic;
 - calculating a loss probability for each network link using the load carried for the network link and a varying [a] number of active sources; and
 - estimating an end-to-end packet loss probability by using the loss probabilities of each network link.
2. (Currently amended) The method of claim 1, wherein the loss probabilities are calculated over all possible numbers of active sources, and wherein the step of estimating an end-to-end packet loss probability sums the plurality of loss probabilities over all possible numbers of active sources.
3. (Previously Presented) The method of claim 1, further comprising: estimating a packet delay for each network link after estimating the load carried for each network link.